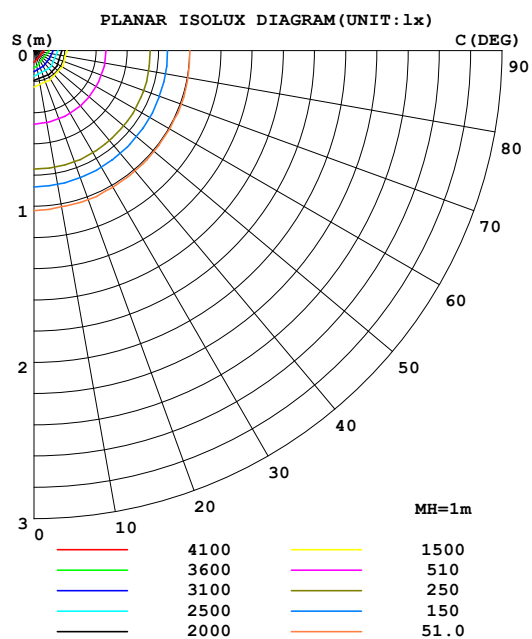
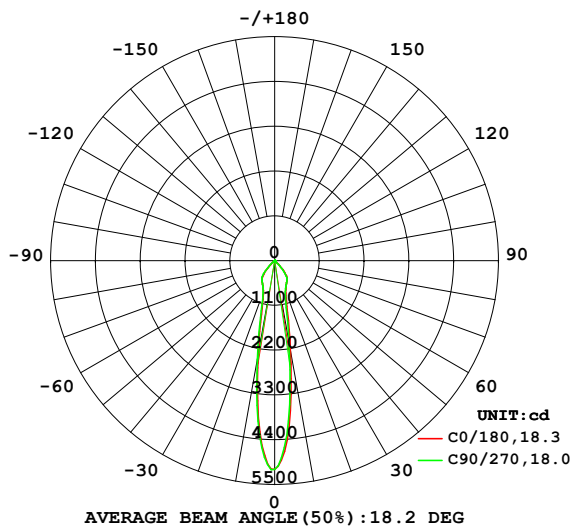


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.07% KDisp:0.9660		Lamp Flux:1493.77x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 119.51 lm/W
MODEL		I _{max} (cd)	5134	S/MH(C0/180)		0.32
NOMINAL POWER(W)	13	LOR(%)	100.0	S/MH(C90/270)		0.33
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1493.8	η UP,DN(C0-180)		0.0,48.2
NOMINAL FLUX(lm)	1493.77	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.0,51.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE(V)	240.39	η down(%)	100.0	CIBSE SHR MAX		0.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2262	2090	2044	2176	2321	2437	2457	2351	0- 10	330.4	330.4	22.1,22.1
20	803.8	784.4	784.5	800.5	821.5	834.5	842.9	820.3	10- 20	349.1	679.5	45.5,45.5
30	601.6	600.7	600.3	607.1	614.7	618.8	616.5	608.6	20- 30	318.5	998.0	66.8,66.8
40	394.9	373.7	363.5	369.3	395.9	414.5	429.3	420.8	30- 40	329.8	1328	88.9,88.9
50	24.61	21.32	22.92	23.95	29.98	35.80	36.96	32.96	40- 50	140.4	1468	98.3,98.3
60	7.337	7.296	7.378	7.260	7.560	7.769	7.686	7.510	50- 60	11.39	1480	99,99
70	5.559	5.459	5.267	5.419	5.758	5.776	5.764	5.528	60- 70	6.327	1486	99.5,99.5
80	4.109	4.248	4.134	4.615	4.545	4.506	4.333	4.148	70- 80	5.185	1491	99.8,99.8
90	0.0565	0.0429	0.0595	0.0400	0.0435	0.0422	0.0520	0.0423	80- 90	2.709	1494	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1432.5 lm

%lum = 95.9%

%lamp = 95.9%

Conical surface Flux(120deg): 1479.5 lm

%lum = 99.0%

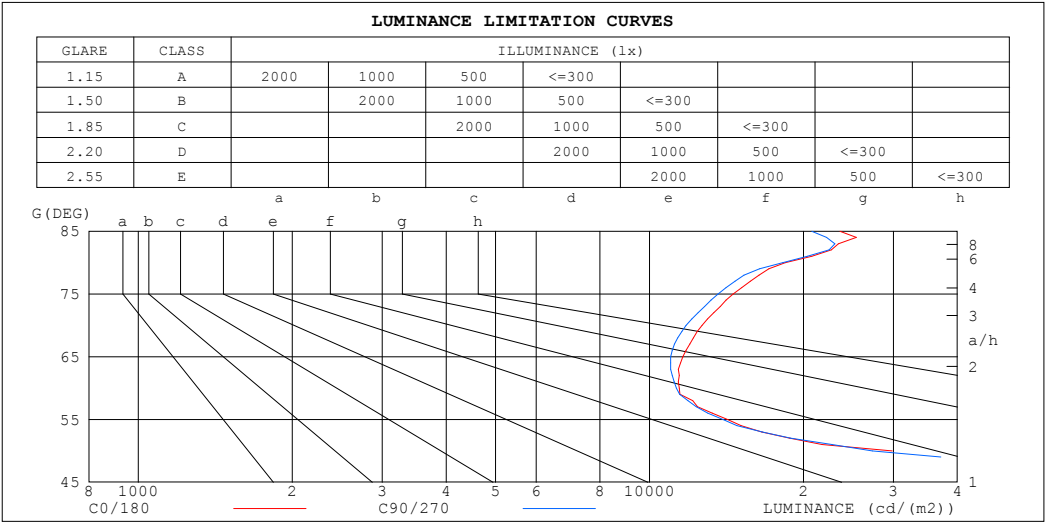
%lamp = 99.0%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-10-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz			Lamp Flux:1493.77x1 lm		
UTHDi:0.17% ITHDi:19.07% KDisp:0.9660					
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D			13WTYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: Norming lighting			SUR.: 41mm		Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	23579	20785
80	18431	18208
75	14573	13614
70	12660	11779
65	11620	11002
60	11430	11287
55	14205	13928
50	29828	27275
45	188602	156476

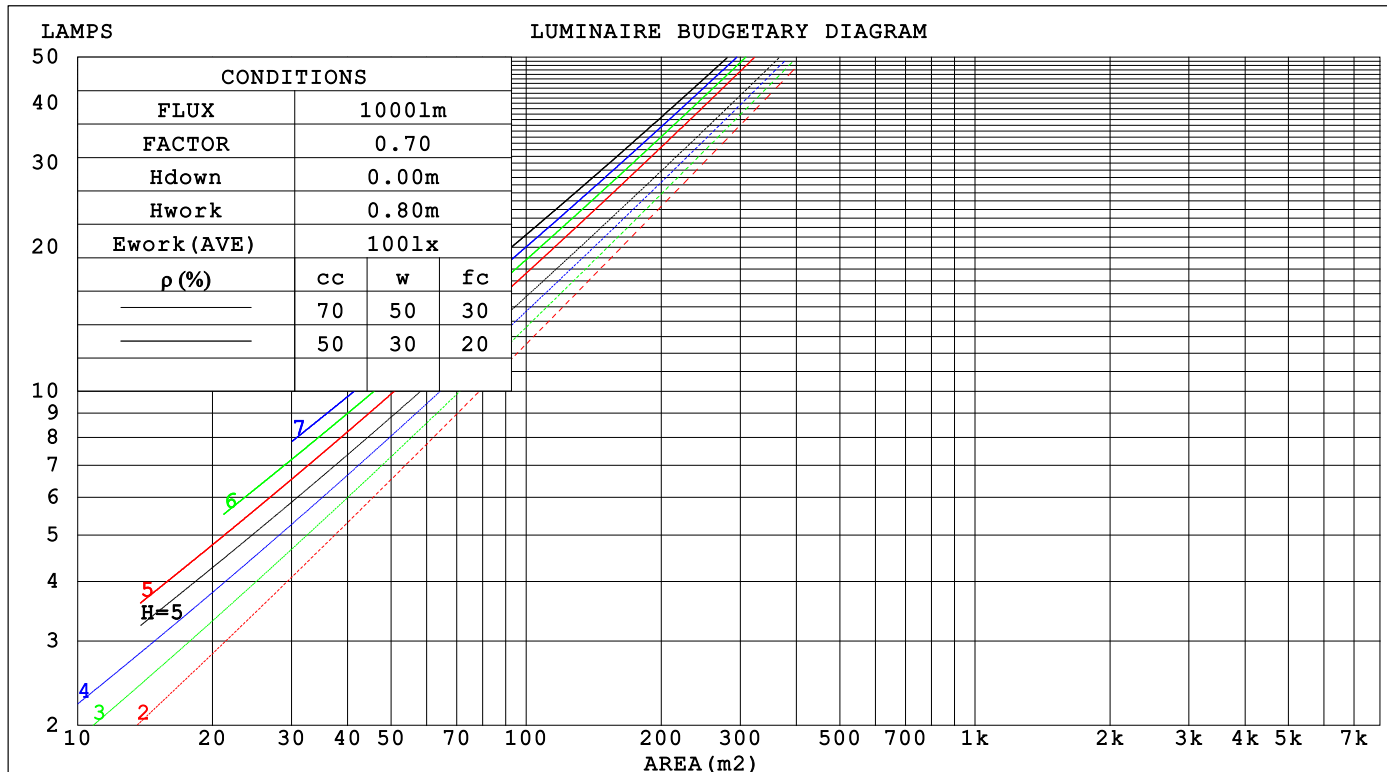
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.07% KDisp:0.9660		Lamp Flux:1493.77x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D 13WTYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.03	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.86	.81	.90	.85	.81	.88	.83	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.86	.80	.76	.85	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.72
6.0	.81	.75	.71	.80	.75	.71	.78	.74	.70	.77	.73	.70	.76	.72	.69	.68
7.0	.76	.71	.67	.76	.70	.66	.74	.70	.66	.73	.69	.66	.72	.68	.65	.64
8.0	.72	.67	.63	.72	.67	.63	.71	.66	.62	.70	.65	.62	.69	.65	.62	.61
9.0	.69	.63	.60	.68	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.58
10.0	.66	.60	.57	.65	.60	.57	.65	.60	.56	.64	.59	.56	.63	.59	.56	.55



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz			UTHDi:0.17% ITHDi:19.07% KDisp:0.9660			Lamp Flux:1493.77x1 lm		
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D			13WTYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.: Norming lighting			SUR.: 41mm			Shielding Angle:		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.175	.099	.031	.168	.096	.030	.155	.089	.028	.144	.083	.027	.133	.077	.025		
2.0	.167	.091	.028	.161	.089	.027	.150	.084	.026	.141	.079	.025	.132	.074	.023		
3.0	.158	.084	.025	.153	.082	.025	.144	.078	.024	.136	.075	.023	.128	.071	.022		
4.0	.150	.078	.023	.146	.076	.023	.138	.073	.022	.131	.070	.021	.124	.068	.021		
5.0	.143	.073	.021	.139	.071	.021	.132	.069	.020	.126	.066	.020	.120	.064	.019		
6.0	.136	.068	.019	.133	.067	.019	.127	.065	.019	.121	.063	.018	.116	.061	.018		
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.060	.017	.112	.058	.017		
8.0	.123	.060	.017	.121	.059	.017	.116	.058	.017	.112	.057	.016	.108	.055	.016		
9.0	.118	.057	.016	.116	.056	.016	.111	.055	.016	.108	.054	.015	.104	.053	.015		
10.0	.113	.054	.015	.111	.053	.015	.107	.052	.015	.103	.051	.015	.100	.050	.014		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016		
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011		
4.0	.132	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009		
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007		
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006		
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005		
8.0	.103	.064	.037	.089	.055	.032	.061	.039	.023	.036	.023	.014	.012	.008	.004		
9.0	.098	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004		
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz UTHDi:0.17% ITHDi:19.07% KDisp:0.9660Lamp Flux:1493.77x1 lm										
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D 13WTYPE:						WEIGHT:				
SPEC.:						DIM.:		SERIAL No.:		
MFR.: Norming lighting						SUR.: 41mm		Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	26.2	27.1	26.4	27.3	27.4	25.9	26.8	26.1	27.0	27.1
3H	26.0	26.9	26.3	27.1	27.3	25.7	26.6	26.0	26.8	27.0
4H	26.0	26.8	26.2	27.0	27.2	25.7	26.5	26.0	26.7	26.9
6H	25.9	26.7	26.2	26.9	27.2	25.6	26.4	25.9	26.6	26.9
8H	25.9	26.6	26.2	26.9	27.1	25.6	26.3	25.9	26.6	26.8
12H	25.9	26.6	26.2	26.8	27.1	25.6	26.3	25.9	26.5	26.8
4H 2H	25.9	26.7	26.2	27.0	27.2	25.6	26.4	25.9	26.7	26.9
3H	25.8	26.5	26.1	26.8	27.0	25.5	26.2	25.8	26.5	26.7
4H	25.7	26.4	26.1	26.7	27.0	25.4	26.1	25.8	26.4	26.7
6H	25.7	26.3	26.1	26.6	26.9	25.4	26.0	25.8	26.3	26.6
8H	25.7	26.2	26.1	26.6	26.9	25.4	25.9	25.8	26.3	26.6
12H	25.7	26.2	26.1	26.5	26.9	25.4	25.9	25.8	26.2	26.6
8H 4H	25.6	26.1	26.0	26.5	26.8	25.3	25.8	25.7	26.2	26.5
6H	25.6	26.0	26.0	26.4	26.8	25.3	25.7	25.7	26.1	26.5
8H	25.6	26.0	26.1	26.4	26.9	25.3	25.7	25.8	26.1	26.6
12H	25.7	26.0	26.1	26.4	26.9	25.4	25.7	25.8	26.1	26.6
12H 4H	25.6	26.0	26.0	26.4	26.8	25.3	25.7	25.7	26.1	26.5
6H	25.6	25.9	26.0	26.4	26.8	25.3	25.7	25.7	26.1	26.5
8H	25.6	25.9	26.1	26.4	26.8	25.3	25.6	25.8	26.1	26.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / - 9.0					+ 2.5 / - 8.8				
1.5H	+ 4.8 / - 9.2					+ 4.8 / - 8.9				
2.0H	+ 7.5 / - 3.7					+ 7.0 / - 3.1				

CIE Pub.117, 1494 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.4$)
Area: 0.0013 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.07% KDisp:0.9660		Lamp Flux:1493.77x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

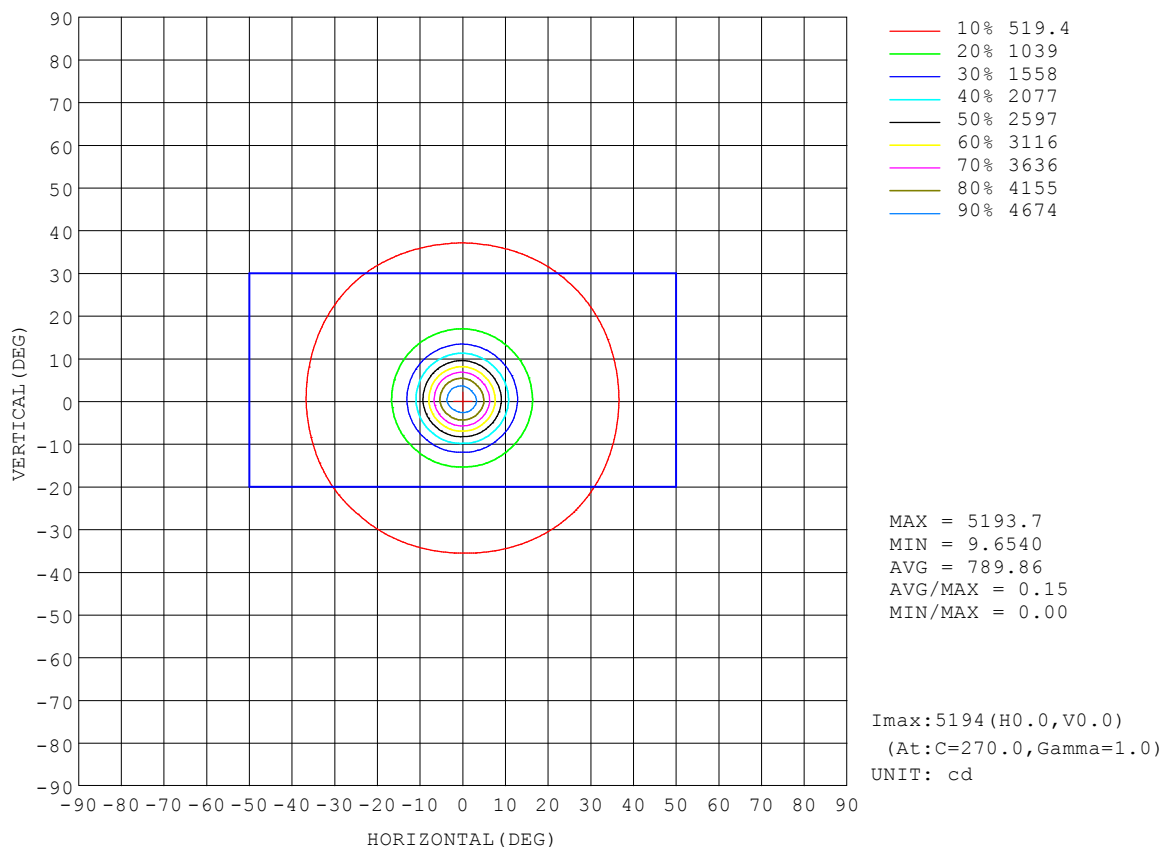
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	83	77	73	70
0.80	93	86	82	92	86	82	91	85	82	78
1.00	98	92	88	97	91	87	95	91	87	83
1.25	102	96	93	101	96	92	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	101	105	102	100	94
3.00	111	108	105	109	106	104	106	104	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	112	110	109	108	107	105	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-10-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.07% KDisp:0.9660		Lamp Flux:1493.77x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

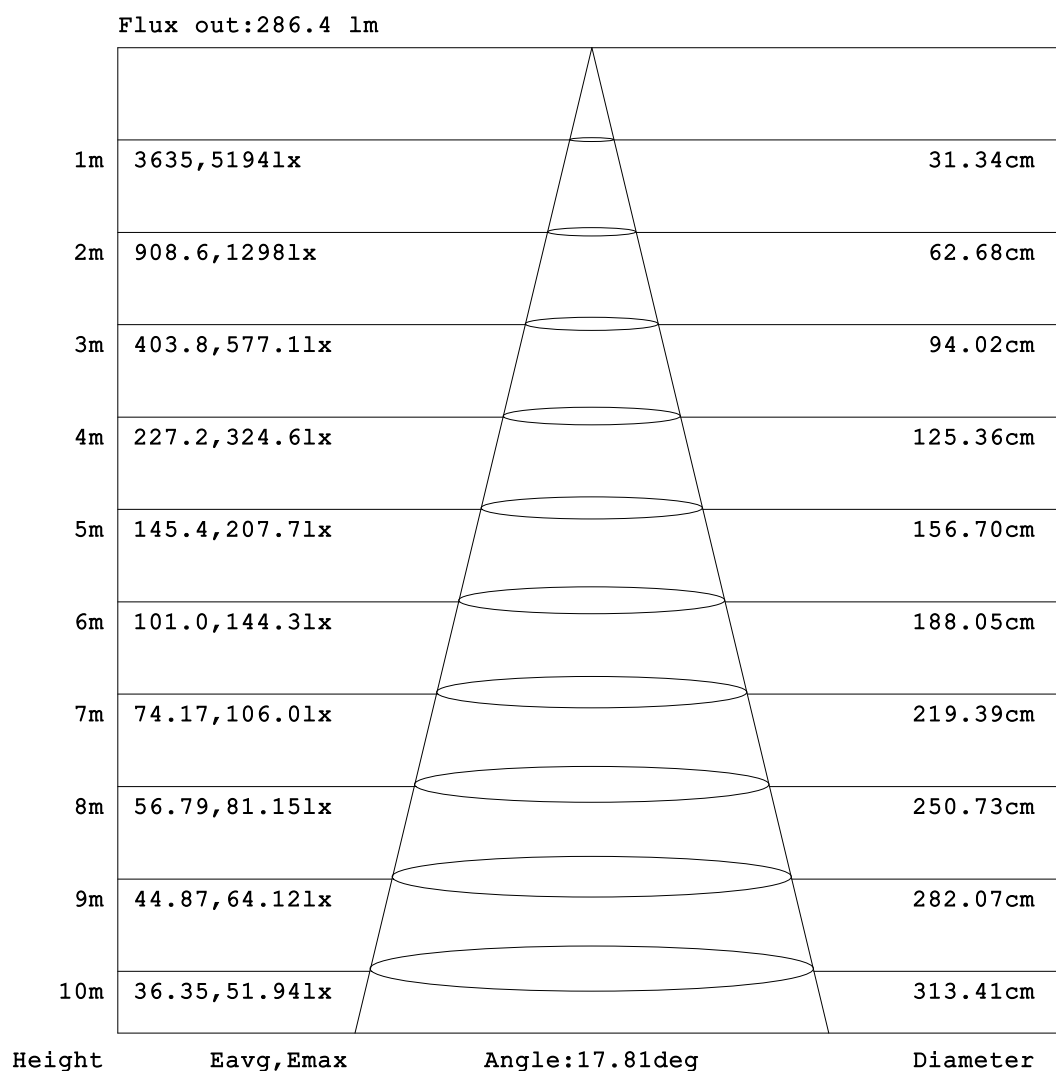


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.07% KDisp:0.9660		Lamp Flux:1493.77x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D	13W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



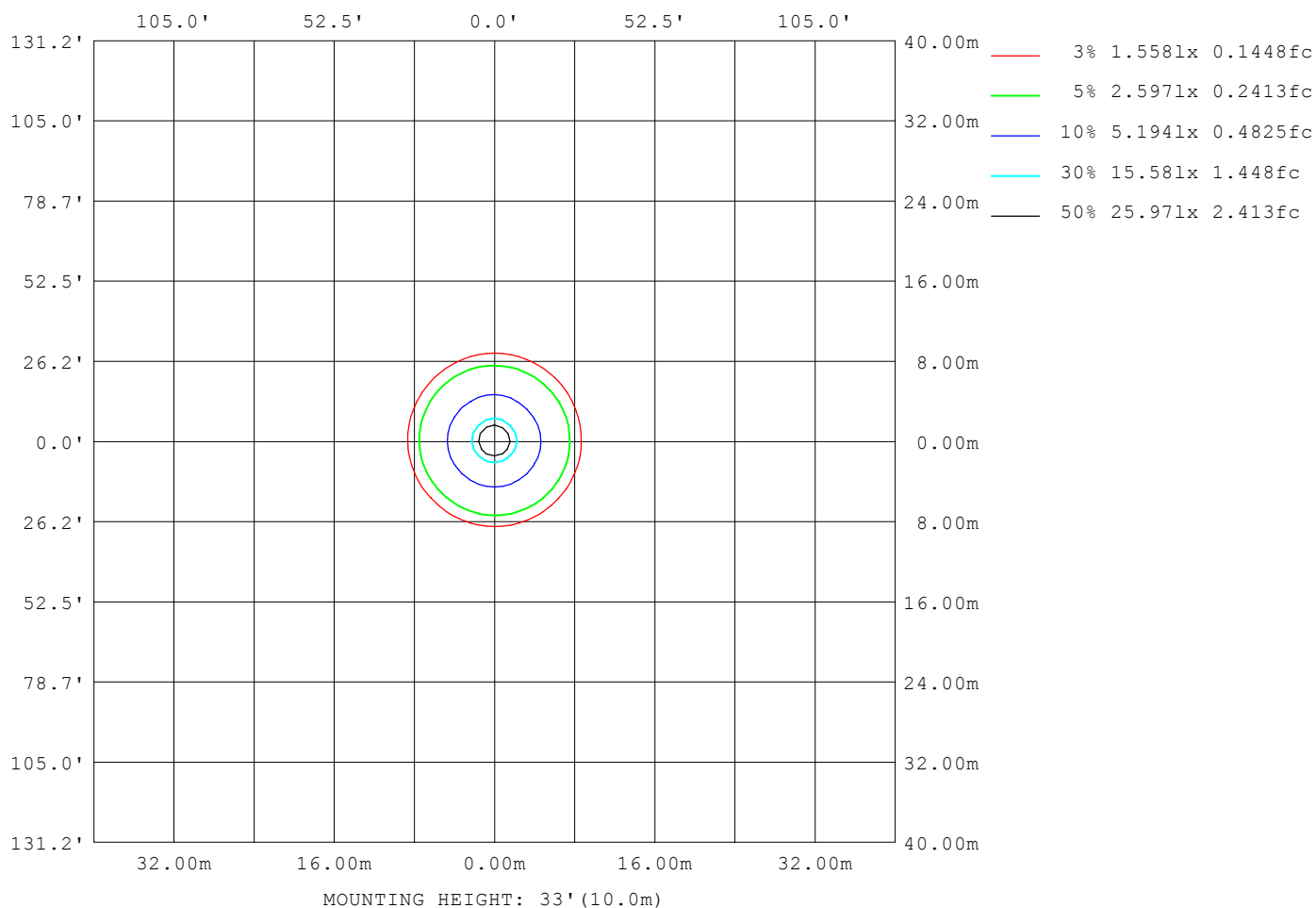
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.07% KDisp:0.9660		Lamp Flux:1493.77x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.4V I:0.0548A P:12.5W PF:0.9482 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.07% KDisp:0.9660 Lamp Flux:1493.77x1 lm		
NAME: FUSION-MD23-AHD-013-COB-02SC 4000K RA90 15D 13W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

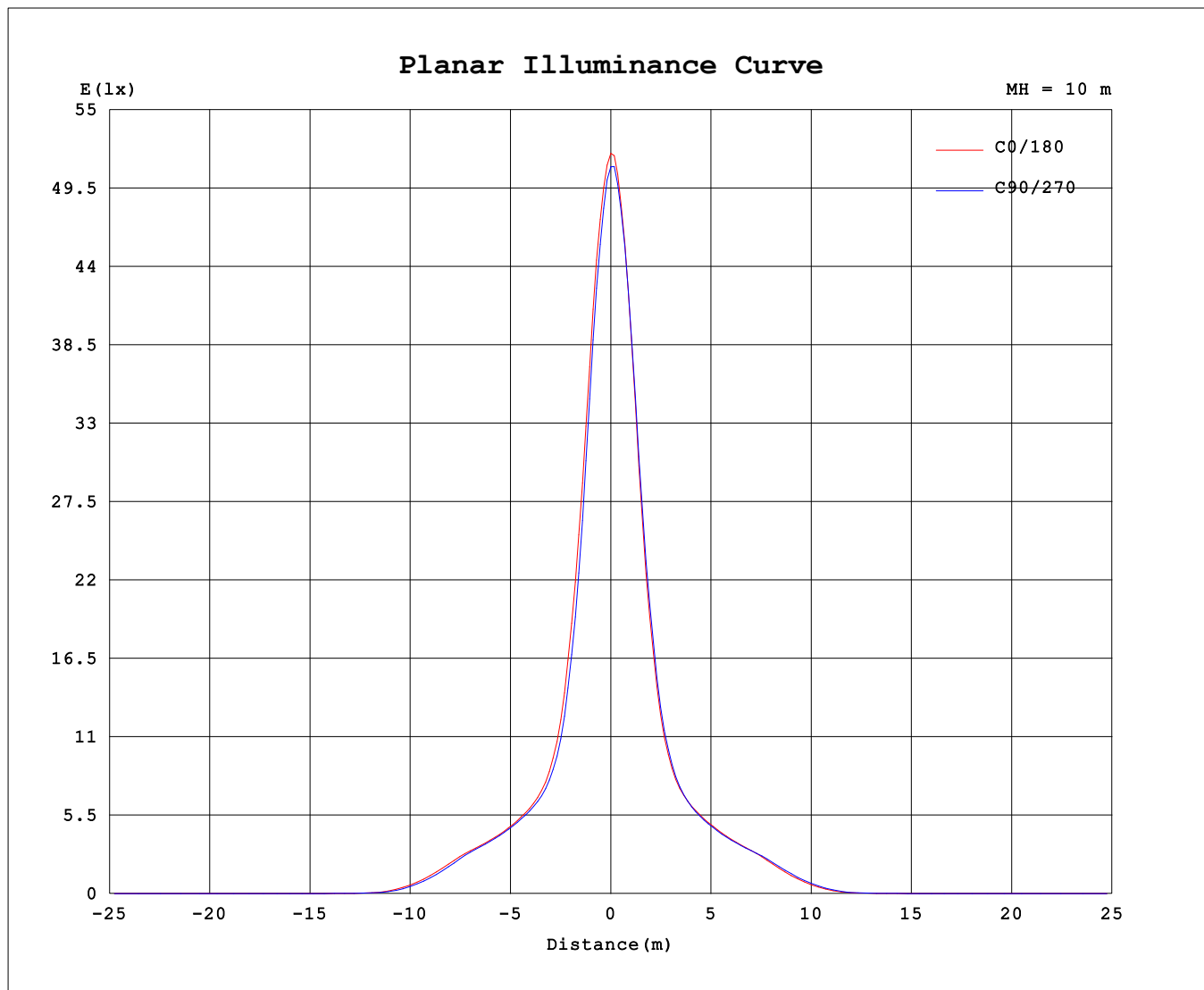
AvgL	cd/m2
L_0~180 (65) av	11601
L_0~180 (75) av	14844
L_0~180 (85) av	26029
L_90~270 (65) av	11460
L_90~270 (75) av	14468
L_90~270 (85) av	25536
L_45 (65) av	11441
L_45 (75) av	14482
L_45 (85) av	26372

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-10-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

G/C	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
0.0	5129	5129	5129	5129	5129	5129	5129	5129
3.0	4690	4605	4601	4689	4790	4854	4838	4757
6.0	3710	3559	3550	3695	3872	3975	3966	3846
9.0	2583	2401	2348	2499	2670	2788	2800	2677
12.0	1729	1580	1552	1654	1780	1855	1894	1802
15.0	1171	1092	1079	1129	1203	1247	1278	1219
18.0	900.4	865.7	862.8	885.6	921.3	952.3	960.7	928.4
21.0	771.0	755.8	756.7	770.9	787.3	795.9	802.1	781.8
24.0	700.1	692.6	694.5	707.0	716.1	716.3	718.2	705.0
27.0	645.8	643.3	643.5	654.8	661.5	661.8	662.3	651.3
30.0	601.6	600.7	600.3	607.1	614.7	618.8	616.5	608.6
33.0	565.6	563.7	561.7	564.3	574.0	579.0	577.8	572.6
36.0	526.0	519.0	512.7	514.1	529.6	537.1	540.9	536.1
39.0	436.3	417.9	405.4	411.7	436.0	454.2	467.6	459.3
42.0	305.8	283.3	273.4	281.2	308.2	326.4	344.3	334.6
45.0	171.2	151.1	144.7	153.8	178.4	192.6	207.7	196.2
48.0	63.90	51.14	47.51	56.71	69.01	80.39	89.77	82.10
51.0	17.58	16.75	18.72	18.87	22.21	25.18	24.35	20.95
54.0	11.39	11.03	11.39	11.84	13.52	14.65	13.21	12.21
57.0	8.673	8.584	8.789	8.703	9.330	9.874	9.522	9.168
60.0	7.337	7.296	7.378	7.260	7.560	7.769	7.686	7.510
63.0	6.636	6.579	6.528	6.496	6.843	6.910	6.957	6.706
66.0	6.157	6.068	5.892	5.987	6.281	6.278	6.354	6.155
69.0	5.703	5.610	5.416	5.555	5.867	5.884	5.900	5.682
72.0	5.303	5.191	5.029	5.164	5.525	5.541	5.519	5.262
75.0	4.842	4.727	4.607	4.741	5.147	5.163	5.130	4.859
78.0	4.372	4.263	4.161	4.447	4.710	4.709	4.681	4.436
81.0	4.173	4.262	4.163	4.704	4.609	4.491	4.234	4.125
84.0	3.406	3.030	3.034	3.586	3.869	3.946	3.733	3.456
87.0	0.7343	0.5579	0.5916	0.8412	1.375	1.814	1.849	1.363
90.0	0.0565	0.0429	0.0595	0.0400	0.0435	0.0422	0.0520	0.0423

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